

Section 1. Registration Information

Source Identification

Facility Name: Intel Corporation Ocotillo Campus
Parent Company #1 Name:
Parent Company #2 Name:

Submission and Acceptance

Submission Type: Re-submission
Subsequent RMP Submission Reason: Regulated substance present above TQ in new (or previously not covered) process (40 CFR 68.190(b)(4))
Description:
Receipt Date: 18-Dec-2012
Postmark Date: 18-Dec-2012
Next Due Date: 18-Dec-2017
Completeness Check Date: 18-Dec-2012
Complete RMP: Yes
De-Registration / Closed Reason:
De-Registration / Closed Reason Other Text:
De-Registered / Closed Date:
De-Registered / Closed Effective Date:
Certification Received:

Facility Identification

EPA Facility Identifier: 1000 0021 5652
Other EPA Systems Facility ID:

Dun and Bradstreet Numbers (DUNS)

Facility DUNS: 47897855
Parent Company #1 DUNS:
Parent Company #2 DUNS:

Facility Location Address

Street 1: 4500 S Dobson Road
Street 2: M/S: OC4-005
City: Chandler
State: ARIZONA
ZIP: 85248
ZIP4:
County: MARICOPA

Facility Latitude and Longitude

Latitude (decimal): 33.2444
Longitude (decimal): -111.888
Lat/Long Method: GPS - Unspecified
Lat/Long Description: Process Unit
Horizontal Accuracy Measure: 2
Horizontal Reference Datum Name: World Geodetic System of 1984

Source Map Scale Number:

Owner or Operator

Operator Name:	Intel Corporation
Operator Phone:	(408) 765-8080

Mailing Address

Operator Street 1:	2200, Mission College Blvd
Operator Street 2:	
Operator City:	Santa Clara
Operator State:	CALIFORNIA
Operator ZIP:	95054
Operator ZIP4:	1549
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Vijayageetha KS
RMP Title of Person or Position:	EHS Engineer
RMP E-mail Address:	vijaya.geetha.ks@intel.com

Emergency Contact

Emergency Contact Name:	Vijayageetha KS
Emergency Contact Title:	EHS Engineer
Emergency Contact Phone:	(480) 715-4138
Emergency Contact 24-Hour Phone:	(480) 316-7947
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	vijaya.geetha.ks@intel.com

Other Points of Contact

Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	(480) 316-7938
Facility or Parent Company WWW Homepage Address:	www.intel.com

Local Emergency Planning Committee

LEPC:	Chandler Fire Department
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Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	6000
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes

CAA Title V:	Yes
Air Operating Permit ID:	V12002

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	21-Aug-2012
Last Safety Inspection Performed By an External Agency:	Maricopa County Air Quality Department

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:	Geetha KS
Preparer Phone:	(480) 715-4138
Preparer Street 1:	4500, South Dobson Street
Preparer Street 2:	M/S OC4-005
Preparer City:	Chandler
Preparer State:	ARIZONA
Preparer ZIP:	85248
Preparer ZIP4:	
Preparer Foreign State:	
Preparer Foreign Country:	
Preparer Foreign ZIP:	

Confidential Business Information (CBI)

CBI Claimed:
Substantiation Provided:
Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents:	See Section 6. Accident History below to determine if there were any accidents reported for this RMP.
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Process Chemicals

Process ID:	1000039266
Description:	Intel Ocotillo Bulk HCl
Process Chemical ID:	1000047190
Program Level:	Program Level 3 process
Chemical Name:	Hydrogen chloride (anhydrous) [Hydrochloric acid]
CAS Number:	7647-01-0
Quantity (lbs):	15000
CBI Claimed:	
Flammable/Toxic:	Toxic

Process ID:	1000039265
Description:	Intel Ocotillo Bulk NH3
Process Chemical ID:	1000047189
Program Level:	Program Level 3 process
Chemical Name:	Ammonia (anhydrous)
CAS Number:	7664-41-7
Quantity (lbs):	25900
CBI Claimed:	
Flammable/Toxic:	Toxic

Process NAICS

Process ID:	1000039265
Process NAICS ID:	1000039647
Program Level:	Program Level 3 process
NAICS Code:	334413
NAICS Description:	Semiconductor and Related Device Manufacturing

Process ID:	1000039266
Process NAICS ID:	1000039648
Program Level:	Program Level 3 process
NAICS Code:	334413
NAICS Description:	Semiconductor and Related Device Manufacturing

Section 2. Toxics: Worst Case

Toxic Worst ID: 1000032416

Percent Weight:	100.0
Physical State:	Gas liquified by pressure
Model Used:	PHAST Professional Version 6.51
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Rural

Passive Mitigation Considered

Dikes:
Enclosures:
Berms:
Drains:
Sumps:
Other Type:

Toxic Worst ID: 1000032417

Percent Weight:	100.0
Physical State:	Gas liquified by pressure
Model Used:	PHAST Professional Version 6.54
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Rural

Passive Mitigation Considered

Dikes:	
Enclosures:	Yes
Berms:	
Drains:	
Sumps:	
Other Type:	

Section 3. Toxics: Alternative Release

Toxic Alter ID: 1000034345

Percent Weight:	100.0
Physical State:	Gas liquified by pressure
Model Used:	PHAST Professional Revision 6.51
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Rural

Passive Mitigation Considered

Dikes:
Enclosures:
Berms:
Drains:
Sumps:
Other Type:

Active Mitigation Considered

Sprinkler System:	
Deluge System:	
Water Curtain:	
Neutralization:	
Excess Flow Valve:	Yes
Flares:	
Scrubbers:	
Emergency Shutdown:	Yes
Other Type:	Gas Detection w/ Automatic Shutdown

Toxic Alter ID: 1000034346

Percent Weight:	100.0
Physical State:	Gas liquified by pressure
Model Used:	PHAST Professional Version 6.54
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Rural

Passive Mitigation Considered

Dikes:	
Enclosures:	Yes
Berms:	
Drains:	
Sumps:	
Other Type:	

Active Mitigation Considered

Sprinkler System:
Deluge System:
Water Curtain:
Neutralization:
Excess Flow Valve:
Flares:
Scrubbers:

Emergency Shutdown:

Other Type:

Section 4. Flammables: Worst Case

No records found.

Section 5. Flammables: Alternative Release

No records found.

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

No description available.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000040561
Chemical Name:	Ammonia (anhydrous)
Flammable/Toxic:	Toxic
CAS Number:	7664-41-7

Prevention Program Level 3 ID:	1000034297
NAICS Code:	334413

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	03-Feb-2012
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	10-Sep-2010
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The Technique Used

What If:	
Checklist:	
What If/Checklist:	
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	LOPA
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	03-Feb-2012

Major Hazards Identified

Toxic Release:	Yes
Fire:	
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	
Overfilling:	
Contamination:	
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	
Floods (Flood Plain):	

Tornado:
Hurricanes:
Other Major Hazard Identified:

Process Controls in Use

Vents:
Relief Valves:
Check Valves:
Scrubbers:
Flares:
Manual Shutoffs: Yes
Automatic Shutoffs: Yes
Interlocks: Yes
Alarms and Procedures: Yes
Keyed Bypass:
Emergency Air Supply:
Emergency Power: Yes
Backup Pump:
Grounding Equipment: Yes
Inhibitor Addition:
Rupture Disks: Yes
Excess Flow Device: Yes
Quench System:
Purge System: Yes
None:
Other Process Control in Use:

Mitigation Systems in Use

Sprinkler System:
Dikes:
Fire Walls:
Blast Walls:
Deluge System:
Water Curtain:
Enclosure:
Neutralization:
None:
Other Mitigation System in Use: Gas Detection with Auto Shut down

Monitoring/Detection Systems in Use

Process Area Detectors: Yes
Perimeter Monitors:
None:
Other Monitoring/Detection System in Use:

Changes Since Last PHA Update

Reduction in Chemical Inventory:
Increase in Chemical Inventory:
Change Process Parameters:
Installation of Process Controls:
Installation of Process Detection Systems:

Installation of Perimeter Monitoring Systems:

Installation of Mitigation Systems:

None Recommended:

None: Yes

Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 03-Feb-2012

Training

Training Revision Date (The date of the most recent review or revision of training programs): 31-May-2012

The Type of Training Provided

Classroom: Yes

On the Job: Yes

Other Training:

The Type of Competency Testing Used

Written Tests: Yes

Oral Tests:

Demonstration:

Observation: Yes

Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 03-Feb-2012

Equipment Inspection Date (The date of the most recent equipment inspection or test): 03-Oct-2012

Equipment Tested (Equipment most recently inspected or tested): System inspections and test for pre-startup safety

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures): 10-Sep-2010

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 03-Mar-2011

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review): 03-Oct-2012

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 16-Nov-2012

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 29-Mar-2013

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 01-Dec-2009

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 01-Nov-2009

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 31-Dec-2011

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 31-Dec-2011

Confidential Business Information

CBI Claimed:

Description

No description available.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID: 1000040562
Chemical Name: Hydrogen chloride (anhydrous) [Hydrochloric acid]

Flammable/Toxic:	Toxic
CAS Number:	7647-01-0

Prevention Program Level 3 ID:	1000034298
NAICS Code:	334413

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	17-Dec-2012
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	06-Dec-2010
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The Technique Used

What If:	
Checklist:	
What If/Checklist:	
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	LOPA
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	16-Sep-2011

Major Hazards Identified

Toxic Release:	Yes
Fire:	
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	
Corrosion:	
Overfilling:	
Contamination:	
Equipment Failure:	
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	
Floods (Flood Plain):	
Tornado:	
Hurricanes:	
Other Major Hazard Identified:	

Process Controls in Use

Vents:	Yes
Relief Valves:	Yes
Check Valves:	Yes
Scrubbers:	Yes
Flares:	

Manual Shutoffs:	Yes
Automatic Shutoffs:	Yes
Interlocks:	Yes
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	Yes
Backup Pump:	
Grounding Equipment:	
Inhibitor Addition:	
Rupture Disks:	Yes
Excess Flow Device:	
Quench System:	
Purge System:	Yes
None:	
Other Process Control in Use:	

Mitigation Systems in Use

Sprinkler System:	Yes
Dikes:	
Fire Walls:	
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	Yes
Neutralization:	
None:	
Other Mitigation System in Use:	Emergency wet scrubber with caustic injection for burst disk failure

Monitoring/Detection Systems in Use

Process Area Detectors:	
Perimeter Monitors:	
None:	
Other Monitoring/Detection System in Use:	Exhausted enclosures at all mechanical leak points with gas detection

Changes Since Last PHA Update

Reduction in Chemical Inventory:	
Increase in Chemical Inventory:	
Change Process Parameters:	
Installation of Process Controls:	
Installation of Process Detection Systems:	
Installation of Perimeter Monitoring Systems:	
Installation of Mitigation Systems:	
None Recommended:	Yes
None:	
Other Changes Since Last PHA or PHA Update:	

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 25-Nov-2012

Training

Training Revision Date (The date of the most recent review or revision of training programs): 17-Dec-2012

The Type of Training Provided

Classroom: Yes
On the Job: Yes
Other Training: Computer Based Training

The Type of Competency Testing Used

Written Tests: Yes
Oral Tests:
Demonstration:
Observation: Yes
Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 09-Feb-2012

Equipment Inspection Date (The date of the most recent equipment inspection or test): 17-Dec-2012

Equipment Tested (Equipment most recently inspected or tested): System inspections and test for pre-startup safety review

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures): 15-Jul-2010

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 03-Mar-2011

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review): 17-Dec-2012

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 16-Nov-2012

Compliance Audit Change Completion Date 29-Mar-2013
(Expected or actual date of completion of all changes resulting from the compliance audit):

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):
Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 01-Dec-2009

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 01-Nov-2009

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 30-Jun-2011

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 30-Jun-2011

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?): Yes

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?): Yes

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?): Yes

Healthcare (Does facility's ER plan include information on emergency health care?): Yes

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan): 09-Apr-2012

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees): 31-May-2012

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): Chandler Fire Departments

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (480) 782-2120

Subject to

OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120: Yes

Clean Water Regulations at 40 CFR 112: Yes

RCRA Regulations at CFR 264, 265, and 279.52: Yes

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:

State EPCRA Rules or Laws: Yes

Other (Specify):

Executive Summary

EXECUTIVE SUMMARY - RISK MANAGEMENT PLAN

Intel has a comprehensive Environmental, Health, and Safety Program that address all aspects of the life cycle of its processes, facilities, and products. Its Process Safety/Risk Management program described here addresses how Intel manages the risks associated with high hazard chemical processes to prevent accidental releases, fires, or injuries related to process upsets with high or catastrophic potential. Intel's advanced processes are consuming higher volumes of some hazardous gases than previous process technologies. To accommodate this increased demand, without increasing exposure risk, Intel has implemented an industry standard offering of DOT ISO module/trailer and ISOtainer/trailers to provide the process gas delivery and replace smaller industry standard cylinders. Doing this will increase the size of the gas delivery package, but it will also reduce projected package change frequency at advanced process factories in some cases by 25X. It is well known in the gas industry that it is the package change which represents the highest risk for a release potential. Intel has conducted numerous hazard assessments in conjunction with the ISO module and ISOtainer supplier's and our Architectural and Engineering (A&E) consultant. This included conducting numerous HazOp studies, consequence analysis on numerous scenarios, and a Layers of Protection Analysis (LOPA) in order to determine the risk management and control strategies. The following describes the comprehensive Process Safety and Risk Management Program elements for all of these high hazard chemical systems.

SAFETY IN FACILITIES AND EQUIPMENT DESIGN

Today's semiconductor facilities utilize toxic, corrosive, pyrophoric, and flammable materials. These materials are inherently hazardous, sometimes in small quantities, and therefore safety engineering is required to contain the hazard, reducing the risk to meet acceptable risk levels. The risk management and control of these risks starts by integrating EHS systems into the procurement and installation of process equipment, facilities design, the safe commissioning and pre-startup safety process of these new facilities.

Intel's EHS requirements for the procurement of process equipment are primarily driven to the front of the supplier chain through the Semiconductor Equipment Manufacturers Institute (SEMI) guideline process, an organization that develops standards for its members. EHS requirements such as SEMI S2 (safety), SEMI S8 (ergonomics), and S10 (hazard classification) are just part of the "S" series of SEMI guidelines intended to define these industry safety standards for process equipment. In addition, Intel-specific requirements are included to address other risks. These include combustible material restrictions to reduce fire risk and environmental characterization and emissions requirements to control and manage our site environmental permitting requirements for air, waste, and water emissions.

After the procurement of process equipment, it must be installed and integrated into facility systems. To accomplish this, EHS has integrated its requirements into the process equipment installation standards. This includes ergonomic clearances for safe maintenance and operation, ventilation, spill control, gas detection, and all EHS aspects related to how the process equipment is installed. After these requirements have been established for equipment installations at the Technology Development site, they are transferred via the Master Design Package, which documents how all process equipment is installed at high volume manufacturing sites.

Semiconductor process equipment is supported by larger facilities systems that perform gas distribution, bulk chemical delivery, and waste treatment. EHS requirements are integrated into the design of this equipment through the Intel EHS Facilities Equipment Procurement Process, which is an Intel master specification for all newly procured and designed facilities systems. This starts with outlining process safety expectations early in the Request for Proposal (RFP) and Request For Quote (RFQ) from each supplier, and ends in the final design of the equipment.

Process equipment and facilities equipment must all reside within the walls of the actual fabrication facilities. EHS has integrated its requirements through the EHS Master Design Standard (MDS). The EHS MDS defines the requirements and expectations for the fabrication facilities. This standard is used to support the many codes, standards, and regulations that drive the design of our facilities.

PROCESS HAZARD ANALYSIS

All new facilities systems utilizing high hazard chemicals have a formal Process Hazard Analysis (PHA) conducted to assess the upset conditions the equipment may present, the controls in place, and the

adequacies of these controls to prevent events with high or catastrophic potential. This process is a 3 step approach:

1. An initial process hazard analysis (hazard evaluation) is required on all new chemical facilities systems regardless of the and applicability to OSHA PSM or EPA RMP. One the following methodologies are utilized to determine and evaluate the hazards of the process being analyzed:

What-If Checklist;

Hazard Mode Effects Analysis

Hazard and Operability Study (HAZOP);

2. Conduct consequence analysis (dispersion modeling) of credible release scenarios identified in the PHA. The goal is to have adequate safeguards in place to prevent an impact to the local community.

3. After the PHA is conducted, a Layers of Protection Analysis (LOPA) is conducted on all severe/catastrophic scenarios (including any potential off-site impacts) to ensure that the controls are sufficient to meet the internal Corporate Risk Tolerance Criteria.

PRE-STARTUP SAFETY REVIEW

After the integration of EHS requirements into the procurement, design, and engineering aspects is complete, it is critical to ensure that these new facilities are constructed to the design, and that all safety systems are in place and functional prior to startup. This is especially important for high hazards chemical and gas systems.

Intel has a formal Commissioning Program for all facilities systems which integrates the Environmental, Health, and Safety aspects of startup. This includes a startup after a system modification. This is to ensure:

Construction and equipment is installed in accordance with design specifications;

Safety, operating, maintenance, and emergency procedures are in place and are adequate;

Safety systems and controls are tested and functional;

For new facilities, a process hazard analysis has been performed and recommendations have been resolved or implemented before startup; and modified facilities meet the management of change requirements.

PROCESS SAFETY INFORMATION, OPERATION PROCEDURES AND MECHANICAL INTEGRITY

All required Process Safety Information is maintained and transferred to all manufacturing sites through the Technology Transfer Process. All documentation is controlled through this formal process and utilizes the Intel Master Design Standards and Intel Master Construction Specifications for each system. This includes operating procedures, response flow charts, and maintenance and testing procedures are required for the critical safety equipment of these systems.

CONTRACTORS

The Contractor Safety Program has the following elements to ensure that contractors are provided a safe work environment, and to ensure that only contractors that have good safety programs and performance are conducting work on Intel sites.:

1. When selecting a contractor Intel goes through a formal selection process to evaluate information regarding the contract employer's safety performance and programs.

2. All suppliers go through a formal New Contractor/Supplier Orientation. The main focus on this orientation is site safety rules.

3. The Intel Contractor Sponsor evaluates the performance of contract employers in fulfilling their obligations as specified in this section quarterly. Part of this evaluation includes contract employee injury and illnesses, new misses, or other incidents related to the contractor's work.

PERMIT TO WORK AND RESTRICTED ACCESS

Intel has the following elements to control certain work activities that could cause incidents on processes that utilize flammable, toxic, or reactive chemistries. This includes:

1. All hot work operations conducted on or near a covered process shall utilize the Intel Hot Work Program which requires that all non-electrical hot work must be permitted by use of a Non-Electrical Hot Work Permit

2. Work on any portion of the manufacturing process included on the Site Incident Prevention Program (SIPP). SIPP provides a permitting system to ensure that all work near or on manufacturing processes or equipment are reviewed by the area and system for impacts to production or safety.

3. All Hazard Production Material (HPM) rooms are accessible only to trained and approved personnel via card

reader access/control.

MANAGEMENT OF CHANGE

The design, operation, and maintenance of all the manufacturing process and facilities systems and equipment are controlled by the Intel Facilities Change Control Board (FCCB) Whitepaper process. The FCCB is responsible for documenting new facilities systems (design and qualification), controlling changes in facilities systems, documenting POR (Plan of Record) and controlling changes in manufacturing process equipment installations. The FCCB attempts to ensure that:

1. Factories that run the same process are designed and operated such that the process "sees" no difference from one factory to the next.
2. The process is duplicated in each factory by understanding and controlling process equipment installation changes.
3. Copy Exactly! is maintained "long term" for facilities and equipment installation in the virtual factory.
4. Environmental, health, and safety concerns are addressed in each change.

INCIDENT INVESTIGATION

Intel's Corporate Incident Investigation Standard defines how personnel conduct occupational injury and illness investigations that lead to root cause analysis and corrective action implementation. In addition, it assists in collection of complete and accurate documentation associated with injury and illness incidents. The Corporate Standard - EHS Bulletin Incident Program ensures that significant Safety and Health incidents are appropriately resolved and learning's from these incidents are communicated to prevent the reoccurrence at any site. This program requires immediate investigation and initial notification to management within 24 hours of a serious incident.

EMERGENCY PLANNING AND RESPONSE

All Intel sites have a formal Emergency Management Plan, which includes the formation of an Emergency Operations Center (EOC) and Emergency Response Team (ERT). ERT members act as first responders to provide immediate assessment, assistance and event mitigation. ERT coordinates with the EOC and has direct interface with outside agency responders (fire dept). ERT Members receive extensive training before they participate in the ERT. This includes a five day foundation course covering emergency response procedures, radio use, first aid/CPR, use of breathing apparatus, fire safety, chemical spill cleanup and gas leak detection.

COMPLIANCE AUDITS

A compliance focused self-assessment audit of the process safety management program is conducted by site at a minimum of every three years. In addition, a Corporate Audit team is established that conducts formal EHS program audits on a periodic basis. PSM/RMP is one of the protocols of this audit.